

REMARKS

Applicants appreciate the thorough examination of the present application as reflected in the Official Action mailed October 4, 2006. Applicants particularly appreciate the indication in the Official Action that Claims 42, 49-53 and 63 are allowed, and that Claim 28 would be allowable if rewritten in independent form. Applicants have rewritten Claim 28 to independent form including the recitations of Claims 17 and 27, except that Applicants have omitted recitations relating to the material composition of the substrates of the blue and green LEDs, which were unnecessary for patentability over the cited references. Accordingly, Applicants respectfully submit that Claim 28 is now in condition for allowance.

Applicants have further amended Claims 17, 31, and 55 to include the recitations of Claims 19, 34 and 58, respectively. Claims 19, 34 and 58 have been cancelled. Applicants submit that Claims 17, 31 and 55, as amended, is allowable over the cited reference for at least the reasons explained below.

Claim 17 has been amended to recite that the top contacts of the respective red, green and blue LEDs are the anode contacts, that the cathode of each diode is connected to an individual pin, and that the anode top contacts of each diode are connected to a common anode pin. The Official Action states that U.S. Patent No. 5,184,114 to Brown discloses an anode contact pin. Official Action, p. 4. However, Applicants note that, in contrast to the configuration recited in Claim 17, Brown discloses separate anode contact pins for the red, green and blue LEDs in a pixel. As stated in Brown, "Specifically, each anode conductive pin 60 (one each for red, green and blue), mounted to substrate backing 20, is inserted into a matching conductive female receptacle 72 of a driving circuitry anode conductor 70. One such anode conductor 70 is provided for each of the three RGB pins 60." Furthermore, Brown Fig. 4 shows separate anode pins 60R, 60G and 60B for the different LEDs. Accordingly, Brown does not teach or suggest that the cathode of each diode is connected to an individual pin, and that the anode top contacts of each diode are connected to a common anode pin, as recited in Claim 17.

Claims 31 and 55 have been amended to include similar recitations as Claim 17, namely, that the cathode of each diode in a pixel is connected to an individual pin, and that the anode top contacts of each diode are connected to a common anode pin. Accordingly, Applicants respectfully submit that Claims 31 and 55 are patentable for at least the reasons explained above.

The dependent claims are patentable at least as depending upon a patentable base claim. Furthermore, many of the dependent claims provide separate bases for patentability. For example, Claims 27, 41, and 62 recite a pixel including a blue LED having a silicon carbide substrate and a group III nitride active layer and a green LED having a silicon carbide substrate and a group III nitride active layer, wherein the blue LED and the green LED have having their voltage parameters matched to one another to simplify the driving thereof. In discussing these claims, the Official Action states that it is inherent to apply different voltage to the red, green and blue LEDs according to the display data. Official Action, p. 4. Applicants respectfully submit that the statement in the Official Action reinforces the patentability of these claims. According to embodiments of the invention recited in Claims 27, 41 and 62, it is not necessary to apply different voltage levels to the blue and green LEDs, because the blue and green LEDs have their voltage parameters matched to simplify driving thereof. See Specification, p. 17, ll. 23-27.

CONCLUSION

In light of the above remarks, Applicants respectfully submit that the above-entitled application is in condition for allowance. Favorable reconsideration of this application is respectfully requested. If, in the opinion of the Examiner, a telephonic conference would expedite the examination of this matter, the Examiner is invited to call the undersigned attorney at (919) 854-1400.

Respectfully submitted,

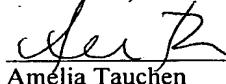


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